WESTERN RIVERSIDE COUNTY MULTIPLE SPECIES HABITAT CONSERVATION PLAN CONSISTENCY ANALYSIS AND BIOLOGY REPORT

KILEY PROPERTIES - TRACT 37154 (ASSESSOR'S PARCEL NUMBERS 290-160-011 AND 290-160-014)

RIVERSIDE COUNTY, CALIFORNIA

MSHCP PERMITTEE: RIVERSIDE COUNTY

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TABLE OF CONTENTS

TABLE	OF CON	NTENTS	i
	APPE	NDICES	ii
	TABLE	ES	ii
1.0	EXECU	UTIVE SUMMARY	1
2.0	INTRO	ODUCTION	3
	2.1	PROJECT AREA	3
	2.2	PROJECT DESCRIPTION	3
	2.3	GENERAL SETTING	3
3.0	RESER	RVE ASSEMBLY ANALYSIS	4
	3.1	CELL AND CRITERIA ANALYSIS	4
	3.2	PUBLIC QUASI-PUBLIC LANDS ANALYSIS	4
4.0	VEGE	TATION	5
5.0		ECTION OF SPECIES ASSOCIATED WITH RIPARIAN/RIVERINE AREAS AND IAL POOLS (MSHCP SECTION 6.1.2)	б
	5.1	RIPARIAN/RIVERINE	6
		5.1.1 Methods	
		5.1.2 Existing Conditions and Results	
		5.1.4 Mitigation	
	5.2	VERNAL POOLS	10
		5.2.1 Methods	
	F 2	5.2.2 Existing Conditions and Results FAIRY SHRIMP	
	5.3	5.3.1 Methods	
		5.3.2 Existing Conditions and Results	
	5.4	RIPARIAN BIRDS	
		5.4.1 Methods	
6.0	DP∩T	ECTION OF NARROW ENDEMIC PLANT SPECIES (MSHCP SECTION 6.1.3)	
0.0		METHODS	
	6.1		
7.0	6.2	EXISTING CONDITIONS AND RESULTS	
7.0		TIONAL SURVEY NEEDS AND PROCEDURES (MSHCP SECTION 6.3.2)	
	7.1	CRITERIA AREA PLANT SPECIES	15

	7.2	AMPHIBIANS	15
	7.3	BURROWING OWL	15
	7.4	MAMMALS	15
8.0	INFORM	AATION ON OTHER SPECIES	16
	8.1	DELHI SANDS FLOWER-LOVING FLY	16
	8.2	SPECIES NOT ADEQUATELY CONSERVED	16
9.0		INES PERTAINING TO THE URBAN/WILDLANDS INTERFACE (MSHCP SECTION	17
10.0	POTENT	TIAL JURISDICTIONAL WATERS AND STREAMBEDS	19
	10.1	METHODS	19
	10.2	EXISTING CONDITIONS AND RESULTS	19
	10.3	IMPACTS	19
	10.4	MITIGATION	20
11.0	CALIFO	RNIA LIVE OAK TREES	21
	11.1	METHODS	21
	11.2	RESULTS AND IMPACTS	21
	11.3	MITIGATION	21
12.0	NESTIN	G BIRDS	23
13.0	REFERE	NCES	24
14.0	CERTIFI	CATION STATEMENT	25
APPEN	IDICES		
A: FIG B: PLA		ANIMAL SPECIES OBSERVED	
TABLE	S		
Table B Table C Table D	: Function: : Effects : NEPSS	to Vegetation/Land Cover in the Study Area	. 7 . 9 12
Table E	: Ettects	to Potential Jurisdictional Waters	19

1.0 EXECUTIVE SUMMARY

LSA was retained by Highlands at Sycamore Creek to conduct a Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) consistency analysis and general biological study for the Tract 371254 Project (project) located in an unincorporated area of Riverside County, California. The study was conducted for the identification of potential jurisdictional waters and to address compliance with the MSHCP and the California Environmental Quality Act (CEQA). Results of the MSHCP consistency analysis and general biological study are summarized below.

The project site is not within the MSHCP Criteria Area; however, the project is part a Habitat Assessment and Negotiation Strategy (HANS), specifically HANS/PAR 582/Intake 648. The project will dedicate approximately 27 acres of the southerly portion of Assessor's Parcel Number (APN) 290-160-011 for conservation in accordance with HANS/PAR 582/Intake 648.

A jurisdictional delineation was conducted and identified the presence of potential jurisdictional waters and MSHCP riparian/riverine resources. The project would result in 0.13 acre of temporary effects and 0.01 acre of permanent effects to potential nonwetland waters regulated by the United States Army Corps of Engineers (USACE) and 0.20 acre of permanent and 0.03 acre of temporary effect to California Department of Fish and Wildlife (CDFW) riparian/streambed, and 0.38 acre of permanent and 0.01 acre of temporary effects to streambed. Effect to MSHCP riparian/riverine resources is consistent with CDFW effects.

The project is anticipated to require the following agency permits: a Federal Clean Water Act (CWA) Section 404 permit authorization from the USACE, a CWA Section 401 Water Quality Certification from the Regional Water Quality Control Board (RWQCB), and a Fish and Game Code Section 1602 Streambed Alteration Agreement from the CDFW. A Determination of Biologically Equivalent or Superior Preservation (DBESP) has been prepared to address mitigation for project effects to MSHCP riparian/riverine resources.

The site does not contain riparian habitat suitable for riparian bird species, such as least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and yellow-billed cuckoo (*Coccyzus americanus occidentalis*), protected under the MSHCP. Therefore, these riparian bird species are considered absent and no project-related effects will occur.

No vernal pools as defined in the MSHCP or fairy shrimp habitat occur on the project site. Therefore, vernal pools and fairy shrimp are considered absent and no project-related effects will occur.

The project site is not within the MSHCP survey area for burrowing owl (*Athene cunicularia hypugaea*).

The project site is within the MSHCP Narrow Endemic Plan Species Survey Area (NEPSSA) for eight plant species: Munz's onion (Allium munzii), San Diego ambrosia (Ambrosia pumila), slender-horned spineflower (Dodecahema leptoceras), many-stemmed dudleya (Dudleya multicaulis), spreading navarretia (Navarretia fossalis), California Orcutt grass (Orcuttia californica), San Miguel savory (Satureja chandleri), Hammitt's clay-cress (Sibaropsis hammittii), and San Miguel savory (Satureja

chandleri). A habitat assessment and focused survey found these species to be absent. Therefore, no project-related effects will occur to NEPSSA plants.

The project site is not located within an MSHCP designated survey area for any other species and does not contain Delhi series soils.

The project will be subject to MSHCP Urban/Wildlands interface requirements because it is located adjacent to conserved lands associated with HANS/PAR 582/Intake 648.

The project will not affect species not adequately conserved under the MSHCP.

The project contains a total of 55 individual California live oak trees (*Quercus agrifolia*), of which 35 are anticipated to be affected. An oak tree mitigation and monitoring plan will be developed for project effects to California live oak trees.

The project site provides suitable habitat for nesting birds protected under the Migratory Bird Treaty Act (MBTA) and/or Sections 3503–3801 of the California Fish and Game Code. A nesting bird preconstruction survey will be conducted by a qualified biologist three days prior to ground-disturbing activities to avoid potential effects to nesting birds.

2.0 INTRODUCTION

LSA was retained by Highlands at Sycamore Creek to conduct an MSHCP consistency analysis and general biological study for Tract 37154. Tract 37154 is located in Section 13, Township 5 South Range 6 West, in the unincorporated Temescal Canyon area of Riverside County, California as depicted on the United States Geological Survey (USGS) *Alberhill, California* 7.5-minute topographic quadrangle map (Appendix A, Figure 1).

The study was conducted to address compliance with the MSHCP and CEQA. The study included a site visit on January 24, 2018, by LSA biologists Claudia Bauer and Denise Woodard.

2.1 PROJECT AREA

The project area consists of APNs 290-160-011 and 290-160-014, and the larger study area associated with Tract 37154. Other parcels associated with Tract 37154 will be included with APN 290-160-014 as part of a lot line adjustment. The project area has an overall acreage of approximately 36 acres. A study area was created to include Tract 37154 and consists of approximately 10 acres, which is the focus of this study.

2.2 PROJECT DESCRIPTION

The project proposes the development of a residential subdivision (Appendix A, Figure 2) comprising 15 residential lots. The project site or study area is located within the northwesterly corner of the larger project area and consists of approximately 10 acres, which includes the grading limits of Tract 37154. Staging areas will be confined to within the grading limits of the project. No off-site improvements will occur. Off-site access and utility improvements have been completed by adjacent development.

2.3 GENERAL SETTING

The study area is developed with a rural residence and associated infrastructure. A concrete-lined recreational pond, devoid of water, is present on the northeasterly portion of the study area. It is bordered to the north by residential development and to the south, east, and west by undeveloped open space. The site slopes to the northeast and the elevation ranges from approximately 1,400 to 1,475 feet above mean sea level. A drainage feature runs from the southwest to the northeast through project site. It drains into a flood control feature, along the northerly study area boundary, that discharges into a rectangular concrete box culvert structure at Towhee Lane, and then joins the natural flow path toward the northeast. The mapped soils (Appendix A, Figure 3) in the study area are Soboba gravelly loamy sand, 0 to 5 percent slope, and Friant fine sandy loam, 30 to 75 percent slopes (California Soil Resource Lab 2019). Soil observed throughout the site appears to be consistent with this designation.

3.0 RESERVE ASSEMBLY ANALYSIS

3.1 CELL AND CRITERIA ANALYSIS

The MSHCP provides for the assembly of a Conservation Area consisting of Core Areas and Linkages for the conservation of covered species. The Conservation Area is to be assembled from portions of the MSHCP Criteria Area, which consist of quarter-section (i.e., approximately 160-acre) Criteria Cells, each with specific criteria for the species conservation within that cell.

The project site is not within the MSHCP Criteria Area; however, the project is part a Habitat Assessment and Negotiation Strategy (HANS), specifically HANS/PAR 582/Intake 648 (Appendix A, Figure 4). The project will dedicate approximately 27 acres of the southerly portion of APN 290-160-011 for conservation in accordance with HANS/PAR 582/Intake 648.

3.2 PUBLIC QUASI-PUBLIC LANDS ANALYSIS

The project study area is not adjacent to Public/Quasi Public Lands; however, APN 290-160-011 is adjacent to Public/Quasi Public lands on its southern and western borders (Appendix A, Figure 4). The portions of the APN adjacent to Public/Quasi Public lands will be preserved in accordance with HANS/PAR 582/Intake 648. Therefore, the project will not affect Public/Quasi Public lands.

4.0 VEGETATION

The vegetation/land cover on the project site includes developed/disturbed areas, California live oak woodland, individual California live oak (*Quercus agrifolia*), and chamise chaparral. The predominant land cover is developed/disturbed areas and includes rural residential housing, dirt access routes, out-structures, a concrete-lined recreational pond, ornamental trees and shrubs, and ruderal vegetation. The California live oak woodland consists of California live oak, and occurs on the southwesterly potion of the study area. California live oak trees occur as scattered individuals. Chamise chaparral is dominated by chamise (*Adenostoma fasciculatum*) and also occurs in the southwesterly portion of the study area. Table A provides the acreage of each vegetation type as well as project impacts. Appendix A, Figure 5 shows land cover and photograph locations, and site photographs are provided in Figure 6.

Table A: Impacts to Vegetation/Land Cover in the Study Area

		Impacts (acres)	
Vegetation Community	Total within Study Area (acres)	Temporary	Permanent
Developed and Disturbed	7.31	0.24	6.83
California Live Oak Woodland	1.40	0.17	0.55
Individual California Live Oak Trees	0.43	0.01	0.42
Chamise Chaparral	0.89	0.19	0.34
Total	10.03	0.61	8.14

5.0 PROTECTION OF SPECIES ASSOCIATED WITH RIPARIAN/RIVERINE AREAS AND VERNAL POOLS (MSHCP SECTION 6.1.2)

Section 6.1.2 of the MSHCP requires assessment of impacts to riparian habitats, riverine areas, and vernal pools, including focused surveys for sensitive riparian bird and fairy shrimp species when suitable habitat is present. The intent of the assessment requirement is to provide for the protection of resources used by MSHCP-covered species, as well as existing and future downstream conservation areas. Riverine/riparian areas and vernal pools are defined in Section 6.1.2 of the MSHCP as follows:

Riparian/Riverine Areas are lands which contain Habitat dominated by trees, shrubs, persistent emergents, or emergent mosses and lichens, which occur close to or which depend upon soil moisture from a nearby fresh water source; or areas with fresh water flow during all or a portion of the year.

Vernal pools are seasonal wetlands that occur in depression areas that have wetlands indicators of all three parameters (soils, vegetation and hydrology) during the wetter portion of the growing season but normally lack wetlands indicators of hydrology and/or vegetation during the drier portion of the growing season. Obligate hydrophytes and facultative wetlands plant species are normally dominant during the wetter portion of the growing season, while upland species (annuals) may be dominant during the drier portion of the growing season. The determination that an area exhibits vernal pool characteristics, and the definition of the watershed supporting vernal pool hydrology, must be made on a case-bycase basis. Such determinations should consider the length of the time the area exhibits upland and wetland characteristics and the manner in which the area fits into the overall ecological system as a wetland. Evidence concerning the persistence of an area's wetness can be obtained from its history, vegetation, soils, and drainage characteristics, uses to which it has been subjected, and weather and hydrologic records.

Fairy Shrimp. For Riverside, vernal pool and Santa Rosa fairy shrimp, mapping of stock ponds, ephemeral pools and other features shall also be undertaken as determined appropriate by a qualified biologist.

With the exception of wetlands created for the purpose of providing wetlands Habitat or resulting from human actions to create open waters or from the alteration of natural stream courses, areas demonstrating characteristics as described above which are artificially created are not included in these definitions.

5.1 RIPARIAN/RIVERINE

5.1.1 Methods

The study area was assessed for riparian/riverine areas during a jurisdictional delineation conducted on January 24, 2018, by Claudia Bauer and Denise Woodard. Potential federal and State jurisdictional features and MSHCP Section 6.1.2 Riparian/Riverine areas were assessed. Potential jurisdictional areas were identified in the study area, evaluated on foot, and mapped using aerial photographs and GPS. Areas of potential jurisdiction were evaluated according to the most current

USACE and CDFW regulatory criteria and guidance. The boundaries of the potential jurisdictional areas within the study area were observed in the field and mapped on an aerial photograph (the scale is 1 inch = approximately 150 feet). Any areas supporting plant species that were potentially indicative of wetlands were evaluated according to routine wetland delineation procedures described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008). Hydrological conditions, including any surface inundation, saturated soils, groundwater levels, and/or other wetland hydrology indicators were also noted. The assessment included identification and mapping of plant communities on the site as well as any drainage features. The riparian/riverine areas discussed in this report are based on the CDFW jurisdictional areas as detailed in the project Jurisdictional Delineation Report (Appendix B).

5.1.2 Existing Conditions and Results

Riparian/Riverine

A single drainage feature (Appendix A, Figure 7) runs from the southwest to the northeast through study area. It drains into a flood control feature, at the northerly study area boundary, that discharges to a concrete box culvert structure at Towhee Lane, and then joins the natural flow path toward the northeast. The drainage is ephemeral and vegetated by ruderal vegetation and California live oak woodland and individual California live oak trees. California live oak woodland/trees associated with the drainage feature are considered to be riparian habitat protected under MSHCP Section 6.1.2.

Functions and Values

A qualitative functions and values analysis of the existing drainage feature was conducted as part of the Jurisdictional Delineation. In addition, a Hydrology/Hydraulic Study for Tract 37154 (Adkan Engineers 2019) was prepared.

The following functions were analyzed at low, moderate, or high value levels based on the criteria below and as shown in Table B.

Drainage	Hydrologic Regime	Flood Storage and Flood Flow Modification	Sediment Retention	Nutrient Retention and Transformation	Toxicant Trapping	Social Significance	Wildlife Habitat	Aquatic Habitat
Drainage Feature	Low to Moderate	Low to Moderate	Low	Low	Low	Low to Moderate	Low to Moderate	Low

Table B: Functions and Values of the Drainage Feature within the Study Area

• Hydrologic Regime. This function is the ability of a wetland or stream to absorb and store water below ground. The degree of this saturation is dependent on the soil composition and is affected by prior flooding events. For example, clay soils possess more pore space than sandy soils. However, the smaller pore size slows the rate at which water is absorbed and released; therefore, clay soil has a lower capacity to store water than sandy soils. The storage of water belowground allows for the fluctuation between anaerobic and aerobic conditions that benefit environmental conditions necessary for microbial cycling.

- Flood Storage and Flood Flow Modification. This function is determined based on the ability of a wetland or stream at which the peak flow in a watershed can be attenuated during major storm events and during peak domestic flows to take in surface water that may otherwise cause flooding. This is dependent on the size of the wetland or stream, the amount of water it can hold, and the location in the watershed. For instance, larger wetlands or streams that have a greater capacity to receive waters have a greater ability to reduce flooding. In addition, areas high in the watershed may have more ability to reduce flooding in downstream areas, but areas lower in the watershed may have greater benefits to a specific area. Vegetation, shape, and the configuration of the wetland or stream may also affect flood storage by dissipating the energy of flows during flood events.
- **Sediment Retention.** Removal of sediment is the process that keeps sediments from migrating downstream. This is accomplished through the natural process of sediment retention and entrapment. This function is dependent on the sediment load being delivered by runoff into the watershed. Similar to the above, the vegetation, shape, and configuration of a wetland will also affect sediment retention if water is detained for long durations, as would be the case with dense vegetation, a bowl-shaped watershed, or slow-moving water. This function would be demonstrated (i.e., high) if the turbidity of the incoming water is greater than that of the outgoing water.
- Nutrient Retention and Transformation. Nutrient cycling consists of two variables: uptake of nutrients by plants and detritus turnover, in which nutrients are released for uptake by plants downstream. Wetland systems in general are much more productive with regard to nutrients than upland habitats. The regular availability of water associated with the wetland or stream may cause the growth of plants (nutrient uptake) and associated detritivores and generate nutrients that may be used by a variety of aquatic and terrestrial wildlife downstream.
- **Toxicant Trapping.** The major processes by which wetlands remove nutrients and toxicants are as follows: (1) by trapping sediments rich in nutrients and toxicants, (2) by absorption to soils high in clay content or organic matter, and (3) through nitrification and denitrification in alternating oxic and anoxic conditions. Removal of nutrients and toxicants is closely tied to the processes that provide for sediment removal.
- Social Significance. This is a measure of the probability that a wetland or stream will be used by the public because of its natural features, economic value, official status, and/or location. This includes its being used by the public for recreational uses (e.g., boating, fishing, birding, and walking) and other passive recreational activities. A wetland or stream that is used as an outdoor classroom, is a location for scientific study, or is near a nature center would have a higher social significance standing.
- Wildlife Habitat. General habitat suitability is the ability of a wetland to provide habitat for a
 wide range of wildlife. Vegetation is a large component of wildlife habitat. As plant community
 diversity increases along with connectivity with other habitats, so does potential wildlife
 diversity. In addition, a variety of open water, intermittent ponding, and perennial ponding is
 also an important habitat element for wildlife.
- Aquatic Habitat. The ability of a wetland or stream to support aquatic species requires that there be ample food supply, pool and riffle complexes, and sufficient soil substrate. Food supply

is typically in the form of aquatic invertebrates and detrital matter from nearby vegetation. Pool and riffle complexes provide a variety of habitats for species diversity as well as habitat for breeding and rearing activities. Species diversity is directly related to the complexity of the habitat structure.

The Hydrology/Hydraulic Study (Adkan 2019) was prepared to ensure storm water infrastructure is adequately sized for an anticipated 10- and 100-year storm events, including streets, catch basins, storm drains, and drainage ditches.

Based on the functions and values analysis, the drainage feature has low and, in some cases, low to moderate functions and values. This is because the drainage conveys ephemeral flows, supports limited riparian vegetation, and does not support wetlands vegetation. With the development of the project site with appropriate storm water infrastructure, and through implementation of avoidance, minimization, and mitigation measures described below, these functions and values will not be substantially affected.

5.1.3 Impacts

The drainage feature is considered to be an MSHCP Section 6.1.2 riverine resource. The drainage feature will be entirely developed within the project footprint. The total riparian/riverine resources in the study area are 0.29 acre, and the total riverine resources in the study area are 0.40 acre. The project effects are provided in Table C and shown in Appendix A, Figure 7.

Riparian/Riverine (acres)

Permanent

Temporary

0.20

0.03

Riverine (acres)

Permanent

Temporary

0.38

0.01

Table C: Effects to Riparian/Riverine Resources

For project impacts to riverine resources, the following avoidance and minimization measures will be incorporated:

- Prior to clearing or construction, highly visible barriers (e.g., orange construction fencing) will be
 installed along the boundaries of the project footprint. All construction equipment should be
 operated in a manner to prevent accidental damage to areas outside the project footprint. No
 structure of any kind, or incidental storage of equipment or supplies, will be allowed within
 these protected zones. Silt fence barriers will be installed at the project boundary to prevent
 accidental deposition of fill material in areas where vegetation is adjacent to planned grading
 activities.
- All equipment maintenance, staging, and dispensing of fuel, oil, or any other such activities will
 occur in developed or designated non-sensitive upland habitat areas. The designated upland
 areas will be located in such a manner as to prevent any spill runoff from riverine areas.
- A weed abatement program will be developed to minimize the importation of nonnative plant material during and after construction. Eradication strategies would be employed should an invasion occur.

- A biologist will monitor construction for the duration of the project construction to ensure that
 vegetation removal, best management practices (BMPs), and all avoidance and minimization
 measures are properly constructed and followed.
- Riverine areas temporarily affected by the project will be recontoured to their original grades.

5.1.4 Mitigation

Because the project cannot avoid impacts to riverine areas, a Determination of Biologically Superior or Equivalent Preservation (DBESP) analysis has been prepared (LSA 2019). According to the DBESP, to compensate for the permanent loss of 0.20 acre riparian/riverine resources and 0.03 acre of streambed resources, the project will mitigate for permanent impacts at a 3:1 ratio. Compensation for permanent impacts will include one or a combination of the following: off-site habitat enhancement/preservation, off-site participation in an in-lieu fee program for habitat restoration (reestablishment/rehabilitation), and/or purchase of credits from a mitigation bank for habitat restoration (reestablishment/rehabilitation).

5.2 VERNAL POOLS

5.2.1 Methods

The study area was assessed for vernal pools at the time of the January 24, 2018, site visit. The assessment included a search for depressions, indicators of wetland hydrology, suitable soils, and hydrophytic vegetation. The assessment also included a review of seasonally appropriate aerial photographs (Google Earth: 12/2003, 12/2005, 1/2006, 3/2011, 1/2013, 3/2013, 4/2014. 2/2016, and 2/2018).

5.2.2 Existing Conditions and Results

The concrete-lined recreational pond contained standing water at the time of the field survey as a result of recent winter rains. The recreational pond does not qualify as a vernal pool because it is artificially created, concrete-lined, and contains no vegetation or soils. No other ponded areas or features resembling vernal pools were observed during the site visit, nor were any seen in aerial photographs. The soils mapped and observed within the project area are loamy sand and sandy loam, which are unlikely to support ponding sufficient for vernal pool formation. Therefore, no vernal pools will be affected by the project.

5.3 FAIRY SHRIMP

5.3.1 Methods

The study area was assessed for fairy shrimp habitat at the same time and using the same methods as the assessment for vernal pools. The MSHCP calls for habitat assessments for three sensitive species of fairy shrimp: Santa Rosa Plateau fairy shrimp (*Linderiella santarosae*), Riverside fairy shrimp (*Streptocephalus woottoni*), and vernal pool fairy shrimp (*Branchinecta lynchi*). Santa Rosa Plateau fairy shrimp occurs only on the Santa Rosa Plateau of extreme southwest Riverside County. A fourth sensitive species of Southern California, San Diego fairy shrimp (*Branchinecta sandiegonensis*) is found primarily in coastal areas of Orange and San Diego Counties. It has been found as far inland as the Wildomar area of southwest Riverside County, but is not expected in the

project area. These sensitive fairy shrimp species inhabit vernal pools as well as stock ponds, large road ruts, or other similar habitats that pond water long enough to allow growth and reproduction. To provide fairy shrimp habitat, a feature must regularly pond water for at least 18 days for vernal pool fairy shrimp (Eriksen and Belk 1999) and two months for Riverside fairy shrimp (USFWS 2012).

5.3.2 Existing Conditions and Results

As noted above, there are no vernal pools on the project site. The concrete-lined recreational pond does not contain soils and therefore would not support fairy shrimp. Given the loamy sand and sandy loam soils, and that no inundation on the site was seen in seasonally appropriate aerial photographs, the loamy soils are unlikely to support ponding for long enough to provide suitable habitat conditions. Therefore, the site does not have habitat suitable for sensitive fairy shrimp species and no fairy shrimp will be affected by the project.

5.4 RIPARIAN BIRDS

5.4.1 Methods

Habitat suitability for riparian birds, including least Bell's vireo (LBVI; *Vireo bellii pusillus*), southwestern willow flycatcher (SWFL; *Empidonax traillii extimus*), and yellow-billed cuckoo (YBCU; *Coccyzus americanus*) was assessed in conjunction with the assessment for riverine/riparian areas.

5.4.2 Existing Conditions and Results

The California live oak trees/woodland and ruderal vegetation associated with the drainage feature is considered to be riparian habitat, but it does not provide suitable habitat for special-status riparian bird species protected under MSHCP Section 6.1.2, including least Bell's vireo, southwestern willow flycatcher, and yellow-billed cuckoo. These species generally require riparian forest habitat composed of willow and cottonwood species with a dense understory. The California live oak trees/woodland does not contain willow or cottonwoods and has an understory of mainly non-native ruderal plant species. Therefore, California live oak trees/woodland is considered unsuitable habitat, and the project will have no effect to these riparian bird species.

6.0 PROTECTION OF NARROW ENDEMIC PLANT SPECIES (MSHCP SECTION 6.1.3)

Section 6.1.3 of the MSHCP requires focused surveys for specified sensitive plant species if the project is located within a Narrow Endemic Plant Species Area (NEPSSA) and suitable habitat is present. The project is located within NEPSSA 1, which indicates the need for habitat assessment for the following plant species:

- Munz's onion (Allium munzii);
- San Diego ambrosia (Ambrosia pumila);
- Slender-horned spineflower (Dodecahema leptoceras);
- Many-stemmed dudleya (Dudleya multicaulis);
- Spreading navarretia (Navarretia fossalis);
- California Orcutt grass (Orcuttia californica);
- San Miguel savory (Satureja chandleri);
- Hammitt's clay-cress (Sibaropsis hammittii); and
- San Miguel savory (Satureja chandleri).

6.1 METHODS

A focused plant survey for NEPSSA species was conducted during the 2018 blooming season by LSA botanist Stan Spencer. The first visit was conducted on April 25 from 10:45 a.m. to 12:30 p.m., and the second was conducted on June 6 from 3:00 to 4:00 p.m. The survey was conducted on foot and consisted of walking 10- to 30-foot transects throughout all areas of potentially suitable habitat within the project disturbance areas. All plant species observed during the survey were noted. Total and average seasonal precipitation values were taken from weathercurrents.com. Total season precipitation for the 2017–2018 wet season in the Lake Elsinore area was 4.91 inches, compared to an average season value of 10.60 inches.

6.2 EXISTING CONDITIONS AND RESULTS

Habitat requirements for each species are described in Table D, along with an assessment of habitat and the likelihood that the species is present on the site.

Table D: NEPSSA and CASSA Plant Survey Species Occurrence Probability

Species	MSHCP Habitat	Growth Form & Blooming Period	Occurrence Probability
Munz's onion Allium munzii	Clay soils on mesic exposures or seasonally moist microsites in grassy openings of coastal sage scrub, chaparral, juniper woodland or valley, and foothill grassland.	Perennial bulb April–May	Absent. No clay soils.
	The MSHCP account for this species states that "Munz's		

Table D: NEPSSA and CASSA Plant Survey Species Occurrence Probability

	. NET 33A und CA33A Fluite Survey Species Securient	Growth Form & Blooming	Occurrence
Species	MSHCP Habitat	Period	Probability
	onion is found on clay and cobbly clay soils which include the following series: Altamont, Auld, Bosanko, Claypit, and Porterville." The account also mentions that "one population (Bachelor Mountain) is reported to be associated with pyroxenite outcrops instead of clay." However, weathering of pyroxenite generally results in a clay soil. It is therefore expected that any Munz's onion population associated with pyroxenite outcrops would be in clay soils.		
San Diego ambrosia	Open floodplain terraces on Garretson gravelly fine sandy	Perennial	Absent. No
Ambrosia pumila	loams, or in the watershed margins of vernal pools or alkali playas on Las Posas loam in close proximity to Willow silty alkaline soils. Occurs in sparse annual vegetation.	Generally non- flowering	appropriate soils or vernal pools or alkali areas.
Slender-horned	Sandy soils in association with mature alluvial scrub	Annual	Absent. No
spineflower	(Riversidean alluvial fan sage scrub); or gravel soils of Temecula arkose deposits (i.e., coarse, decomposing arkose)	April–June	mature alluvial
Dodecahema leptoceras	in association with open chamise chaparral in the Vail Lake		scrub
	area. The ideal habitat appears to be terraces and benches		present.
	that receive overbank deposits every 50–100 years.		
	The MSHCP account for this species states that "this species is dependent on mature alluvial scrub that is maintained by periodic flooding and sediment transport and only occurs along Arroyo Seco and Kolb Creeks, Temescal Wash at Indian Creek, central Bautista Creek, Vail Lake and the upper San Jacinto River near Valle Vista and Hemet Cryptogamic crusts are frequently present in areas occupied by slender-horned spine flower."		
Spreading navarretia	Saline alkaline soils of vernal pools and depressions and	Annual	Absent. No
Navarretia fossalis	ditches in areas that once supported vernal pools. The MSHCP account for this species states that it "is primarily restricted to the alkali floodplains of the San Jacinto River, Mystic Lake and Salt Creek in association with Willows, Domino and Traver soils" and that "in western Riverside County, spreading navarretia has been found in relatively undisturbed and moderately disturbed vernal pools, within a larger vernal floodplains dominated by annual alkali grassland or alkali playa."	May–June	alkali areas.
California Orcutt grass	Alkaline soils and southern basaltic claypan in vernal pools.	Annual	Absent. No
Orcuttia californica	The MSHCP account for this species states that, in Riverside County, it "is found in southern basaltic claypan vernal pools at the Santa Rosa Plateau, and alkaline vernal pools as at Skunk Hollow and at Salt Creek west of Hemet."	April–June	alkali areas.

Table D: NEPSSA and CASSA Plant Survey Species Occurrence Probability

Species	MSHCP Habitat	Growth Form & Blooming Period	Occurrence Probability
San Miguel savory Satureja chandleri	Rocky, gabbroic and metavolcanic substrates in chaparral or oak woodland. MSHCP Table 6-1 lists chaparral, coastal sage scrub, cismontane woodland, riparian woodland, and valley and foothill grasslands as potential habitat for this species. However, this species prefers moist rocky canyons with trees or large shrubs and would not be expected in coastal sage scrub or open grassland except at the margins of chaparral or oak woodland, nor would it be expected in woodlands outside of rocky canyons (Andrew C. Sanders, UC Riverside Herbarium, pers. comm. to Stan Spencer, December 8, 2004, and March 9, 2005). All occurrences of this species in the California Natural Diversity Data Base that include habitat information (16 occurrences in Riverside, Orange, and San Diego Counties) list coast live oak (<i>Quercus agrifolia</i>) or chaparral species as associates, or indicate that the habitat is chaparral, oak woodland, a chaparral-coastal sage scrub interface, or grassy openings in chaparral. In Riverside County, this species is known only from the Santa Ana Mountains and Santa Rosa Plateau, except for a dubious record of an occurrence near Sage Road south of Hemet (Andrew C. Sanders, UC Riverside Herbarium, pers. comm. to Stan Spencer, Mar. 10, 2005; MSHCP species account for San Miguel savory).	Perennial March–May	Absent. Site too dry; species not observed during plant surveys.
Hammitt's clay-cress Sibaropsis hammittii	Clay soils in chaparral and valley and foothill grassland habitats at 700 to 1,100 meters (2,300–3,600 feet) elevation. The MSHCP account for this species states that "Hammitt's clay-cress is associated with clay soils, such as Altamont, Auld, Bosanko, Claypit, and Porterville soil series" and that, in western Riverside County "Hammitt's clay-cress is only known from the Elsinore Peak area of the Santa Ana Mountains in grasslands."	Annual March–April	Absent. No clay soils; outside elevational range of species.
Wright's trichocoronis Trichocoronis wrightii var. wrightii	Alkali soils in alkali playa, alkali annual grassland, and alkali vernal pools. The MSHCP account for this species states that "Wright's trichocoronis is restricted to highly alkaline, silty-clay soils in association with Traver, Domino, and Willows soils"	Annual May– September	Absent. No alkali areas.

As noted in Table D, suitable habitat does not exist on the site for any of these species; therefore, the project will have no effects to NEPSSA plant species. A list of plant and animal species observed is provided as Appendix C.

7.0 ADDITIONAL SURVEY NEEDS AND PROCEDURES (MSHCP SECTION 6.3.2)

MSHCP Section 6.3.2 requires surveys for additional plants, amphibians, small mammals, and burrowing owl for projects located within mapped survey areas.

7.1 CRITERIA AREA PLANT SPECIES

The project is not within a mapped survey area for Criteria Area Species Survey Area (CASSA) plant species.

7.2 AMPHIBIANS

The project is not within a mapped survey area for amphibian species.

7.3 BURROWING OWL

The project site is not within the mapped survey area for burrowing owl.

7.4 MAMMALS

The project is not within a mapped survey area for mammals.

8.0 INFORMATION ON OTHER SPECIES

8.1 DELHI SANDS FLOWER-LOVING FLY

The MSHCP requires surveys for Delhi sands flower-loving fly in most areas of mapped Delhi series soils where suitable habitat exists (MSHCP Section 9).

The project site is not within an area of mapped Delhi soils and soil observed throughout the site is sandy loam and loamy sand, which is inconsistent with Delhi soils; therefore, no survey or additional analysis is required for this species.

8.2 SPECIES NOT ADEQUATELY CONSERVED

Some species that will eventually have full coverage under the MSHCP are not considered adequately conserved until requirements of MSHCP Table 9-3 are met. In addition, there are other special-status species with limited coverage or with no take authorization under the MSHCP.

8.2.1 Methods

Database records for the *Alberhill, California* USGS 7.5-minute series quadrangle and surrounding quadrangles were searched on April 2, 2019, using the CDFW California Natural Diversity Data Base *Rarefind 5* online application (https://www.wildlife.ca.gov/Data/CNDDB/Maps-and-Data) for occurrence of special-status species not adequately conserved under the MSHCP known from the study area and vicinity.

8.2.2 Existing Results

One MSHCP Table 9 species, Coulter's Matilija poppy (*Romneya coulteri*), was observed within the study area during the NEPSSA plant survey. In addition, based on review of the CNDDB database, one MSHCP Table 9-3 species, Parry's spineflower (*Chorizanthe parryi var. parryi*), is known to occur within a one-mile radius of the study area, but was not found during the NEPSSA plant survey. These species have been determined to meet Table 9-3 criteria and are currently considered adequately conserved under the MSHCP. In addition, no other special-status species with limited coverage or with no take authorization under the MSHCP were found. Therefore, no effects Table 9-3 species, or other special-status species with limited coverage or with no take authorization under the MSHCP, are anticipated to occur.

9.0 GUIDELINES PERTAINING TO THE URBAN/WILDLANDS INTERFACE (MSHCP SECTION 6.1.4)

To preserve the integrity of areas described as existing or future MSHCP Conservation Areas, the guidelines contained in Section 6.1.4 (Urban Wildlands Interface Guidelines) are to be implemented for projects that are adjacent to either existing conservation or land described for conservation in the MSHCP Criteria Area.

The project site is adjacent to conserved lands associated with HANS/PAR 582/Intake 648. Therefore, the following Urban Wildlands Interface Guidelines will be incorporated as appropriate:

- **Drainage.** Proposed developments in proximity to the MSHCP Conservation Area shall incorporate measures, including those required through the National Pollutant Discharge Elimination System (NPDES) requirements, to ensure that the quantity and quality of runoff discharged to the MSHCP Conservation Area is not altered in an adverse way when compared with existing conditions. In particular, measures shall be put in place to avoid discharge of untreated surface runoff from developed and paved areas into the MSHCP Conservation Area. Storm water improvements shall be designed to prevent or reduce the release of toxins, chemicals, petroleum products, exotic plant materials, and other elements that might degrade or harm biological resources or ecosystem processes within the MSHCP Conservation Area.
- Toxics. Land uses in proximity to the MSHCP Conservation Area that are potentially toxic or may adversely affect wildlife species, habitat, and water quality include the use of chemicals and fertilizers for agricultural and commercial and residential uses, and petroleum product runoff from paved surfaces. These potential toxicants are not anticipated to be substantially increased by the proposed project. As discussed above, any storm water improvements will be designed to prevent or reduce toxic loads.
- **Lighting.** Night lighting shall be directed away from the MSHCP Conservation Area to protect species within the Conservation Area from direct night lighting. Shielding shall be incorporated in project designs to ensure ambient lighting in the MSHCP Conservation Area is not increased.
- Noise. Proposed noise-generating activities and land uses potentially affecting the MSHCP Conservation Area shall be minimized by incorporating setbacks, berms, walls, or other noise reduction methods per applicable guidelines related to residential noise standards.
- **Invasive Species.** Any proposed landscaping adjacent to the MSHCP Conservation Area shall not be composed of invasive, nonnative plants listed in Table 6-2 of the MSHCP.
- Barriers. The project will incorporate barriers along the edges of the project site to minimize undirected public access, illegal trespass, off-road vehicle traffic, domestic animal predation, and dumping in the MSHCP Conservation Area. Boundary barriers may include rocks/boulders, fencing, and walls with Western Riverside County Regional Conservation Authority (RCA) Wildlife Area signage.
- Grading/Land Development. Manufactured slopes shall not extend across the parcel line of the MSHCP Conservation Area. All land disturbances associated with construction and operation of

the project, including fire management/fuel modification, will be wholly contained within the proposed project parcel boundary.

10.0 POTENTIAL JURISDICTIONAL WATERS AND STREAMBEDS

The drainage feature within the study area is a potential jurisdictional water subject to the regulatory authority of the CDFW, USACE, and the RWQCB.

10.1 METHODS

Claudia Bauer and Denise Woodard conducted the fieldwork for a jurisdictional delineation on January 24, 2018. Potential federal and State jurisdictional features, and MSHCP Section 6.1.2 Riparian/Riverine Areas were identified in the study area, evaluated on foot, and mapped using aerial photographs and GPS. Areas of potential jurisdiction were evaluated according to the most current USACE and CDFW regulatory criteria and guidance as of the date of this report. The boundaries of the potential jurisdictional areas within the study area were observed in the field and mapped on an aerial photograph (the scale is 1 inch = approximately 150 feet). Any areas supporting plant species that were potentially indicative of wetlands were evaluated according to routine wetland delineation procedures described in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (USACE 2008). Hydrological conditions, including any surface inundation, saturated soils, groundwater levels, and/or other wetland hydrology indicators were also noted.

10.2 EXISTING CONDITIONS AND RESULTS

A single drainage feature (Appendix A, Figure 7) runs from the southwest to the northeast through study area. It drains into a flood control feature, at the northerly study area boundary, that discharges to a concrete box culvert structure at Towhee Lane, and then joins the natural flow path toward the northeast. The drainage is ephemeral and vegetated by ruderal vegetation and California live oak woodland and individual California live oak trees.

The study area has 0.29 acre of riparian streambed and 0.40 acre of streambed subject to the regulatory authority of CDFW under Section 1602 of the California Fish and Game Code, 0.15 acre of non-wetland waters subject to the regulatory of the USACE under Section 404 of the CWA and the RWQCB under Section 401 of the CWA.

10.3 IMPACTS

Project effects to potential jurisdictional waters are provided in Table E and are shown in Appendix A, Figure 7.

Table E: Effects to Potential Jurisdictional Waters

			CDFW	(acres)	
USACE Non-Wetla	and Waters (acres)	Riparian S	treambed	Stream	mbed
Permanent	Temporary	Permanent	Temporary	Permanent	Temporary
0.13	0.01	0.20	0.03	0.38	0.01

10.4 MITIGATION

Mitigation is anticipated to be required by the USACE, CDFW and the RWQCB to offset the loss of jurisdictional waters and is anticipated to be consistent with that identified in the DBESP. The final determination of what is jurisdictional, what permits will be required, and whether mitigation will be required for such effects ultimately is subject to the discretion of the agencies (i.e., USACE, CDFW, and RWQCB) during the federal and State regulatory processes.

11.0 CALIFORNIA LIVE OAK TREES

The study area contains California live oak trees that are subject to the Riverside County Oak Tree Management Guidelines (approved by the County Board of Supervisors on March 2, 1993). An oak tree assessment (LSA June 2018) was conducted within the study area and is detailed below.

11.1 METHODS

LSA biologists (including an International Society of Arboriculture [ISA] Certified Arborist) inventoried the oak trees and mapped their locations on an aerial photograph. LSA biologist Leo Simone (ISA Certified Arborist No. WE-8491A) led the survey, assisted by LSA biologist Leeann McDougall. The field surveys took place on August 15, 18, and 28, 2017, September 8-9, 2017, and May 25, 2018. Oak woodlands were only mapped when multiple California live oaks were grouped together and had a contiguous closed canopy. Where accessible, trees were measured to determine diameter at breast height (DBH) and tagged with a unique numeric identification (e.g., 3298) inscribed on an aluminum tag. The DBH was estimated if a tree was not fully accessible due to hazardous conditions (e.g., poison oak [Toxicodendron diversilobum] or perilously steep terrain), or if it was outside of the project limits. Tree heights and canopy spreads were estimated and general characteristics (e.g., fire damage, broken branches, significant decay, and bee hives) were noted on the field survey forms. Trees with a DBH of less than 2 inches, unless accompanied by another main stem to have a combined DBH of 2 inches or more, were not considered. Each tree was given a rating of good, fair, or poor based on its overall health. Trees rated as good were considered in good health and had no significant issues. Trees rated as fair were considered in moderate health and may have had some issues (e.g., decay, existing fire damage, and/or codominant trunks). Trees rated as poor were considered in poor health and may have had issues such as severe decay or significant beetle damage. Tree characteristics can be used at the time of impact evaluation to determine the baseline condition of the tree compared to its post-construction condition, thus providing context regarding the severity of impacts.

11.2 RESULTS AND IMPACTS

The study area contains a total of 55 individual California live oak trees. At this time, it is estimated, the project will affect approximately 35 California like oak trees within the project footprint.

11.3 MITIGATION

To mitigate for project effects to California live oak trees, an oak tree mitigation and monitoring plan will be developed for project effects to California live oak trees. The project will mitigate for impacts to California live oak trees through one of the following:

- On-site replacement of California live oak trees at a 10:1 replacement ratio. Prior to project
 construction, a detailed oak tree restoration plan will be prepared and include site preparation
 methods, number of oak trees to be planted, installation methods, performance standards,
 maintenance and monitoring success criteria, and reporting measures.
- Off-site purchase of oak tree restoration credits from an approved mitigation bank or habitat conservation organization.

• A combination of on-site and off-site oak tree replacement/restoration.

12.0 NESTING BIRDS

During the bird breeding season (typically February 1 through August 31), large trees on or adjacent to the project site may be used by hawks, ravens, or other large birds for nesting. Trees, shrubs, and other vegetation may provide nest sites for smaller birds, and burrowing owls may nest in ground squirrel burrows, pipes, or similar features. Most birds and their active nests are protected from "take" (meaning destruction, pursuit, possession, etc.) under the Migratory Bird Treaty Act and/or Sections 3503–3801 of California Fish and Game Code. Activities that cause destruction of active nests, or that cause nest abandonment and subsequent death of eggs or young, may constitute violations of one or both of these laws.

To avoid potential effects to fully protected raptors, special-status bird species, and other nesting birds protected by the California Fish and Game Code, and for compliance with MSHCP Incidental Take Permit Condition 5, the following measures will be implemented:

• A nesting bird pre-construction survey will be conducted by a qualified biologist three days prior to ground-disturbing activities. Should nesting birds be found, an exclusionary buffer will be established by the qualified biologist. The buffer may be up to 500 feet in diameter depending on the species of nesting bird found. This buffer will be clearly marked in the field by construction personnel under guidance of the qualified biologist and construction or clearing will not be conducted within this zone until the qualified biologist determines that the young have fledged or the nest is no longer active. Nesting bird habitat within the BSA will be resurveyed during bird breeding season if there is a lapse in construction activities longer than seven days.

13.0 REFERENCES

- Adkan Engineers. 2019. Hydrology/Hydrolic Study for Kiley Family Trust, Tract 37154, Located in Riverside County.
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- LSA. June 2018. Oak Tree Assessment, Kiley Properties Development Project, Riverside County, California.
- LSA. 2019. Determination of Biologically Equivalent or Superior Preservation, Kiley Family Trust, Tract 37154, Riverside County, California.
- U.S. Fish and Wildlife Service (USFWS). 2012. Endangered and Threatened Wildlife and Plants; Revised Critical Habitat for the Riverside Fairy Shrimp; Final Rule. Federal Register 77: 72070-72140 (December 4, 2012).
- United States Geological Survey (USGS). 1988. *Alberhill, California* 7.5-minute topographic quadrangle map.

14.0 CERTIFICATION STATEMENT

I hereby certify that the statements furnished in this report present the data and information required for this biological evaluation and the facts, statements, and information presented are true and correct to the best of my knowledge and belief.

Date: May 8, 2019 Signature:

APPENDIX A FIGURES

Figure 1: Regional and Project Location

Figure 2: Site Plan

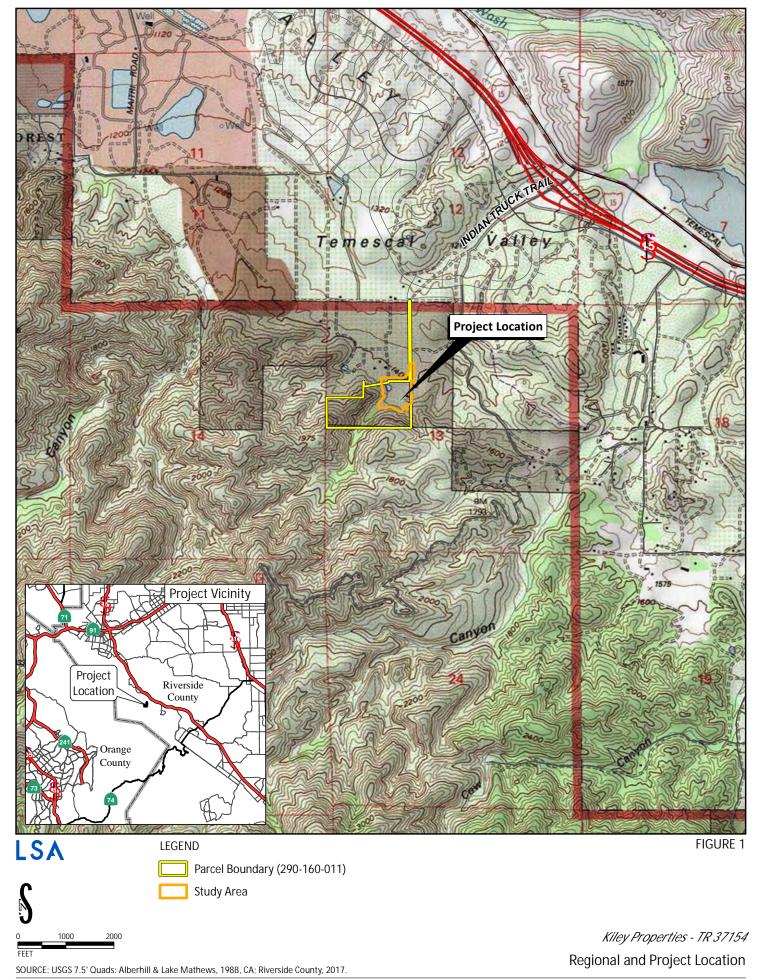
Figure 3: Soil Types

Figure 4: Reserve Assembly

Figure 5: Land Cover and Photo Locations

Figure 6: Site Photographs

Figure 7: Riparian/Riverine Resource, Potential Jurisdictional Waters and Impacts



APPENDIX B JURISDICTIONAL DELINEATION

APPENDIX C PLANT AND ANIMAL SPECIES OBSERVED

Scientific Name	Common Name
CONIFERS	
Pinaceae	Pine family
Pinus canariensis (non-native species)	Canary Island pine
EUDICOT FLOWERING PLANTS	
Adoxaceae	Muskroot family
Sambucus nigra ssp. caerulea	Blue elderberry
Anacardiaceae	Sumac family
Malosma laurina	Laurel sumac
Schinus molle (non-native species)	Peruvian peppertree
Schinus terebinthifolius (non-native species)	Brazilian peppertree
Toxicodendron diversilobum	Pacific poison oak
Apocynacecae	Dogbane family
Funastrum cynanchoides	Fringed twinevine
Asteraceae	Sunflower family
Acourtia microcephala	Sacapellote
Artemisia californica	California sagebrush
Artemisia dracunculus	Tarragon
Carduus pycnocephalus (non-native species)	Italian Thistle
Corethrogyne filaginifolia	California aster
Encelia farinosa	Brittlebush
Erigeron canadensis	Canadian horseweed
Eriophyllum confertiflorum	Golden yarrow
Gutierrezia californica	California matchweed
Hazardia squarrosa	Common hazardia
Helianthus gracilentus	Slender sunflower
Heterotheca grandiflora	Telegraph weed
Lepidospartum squamatum	Scalebroom
Pseudognaphalium californicum	Ladies' tobacco
Rafinesquia neomexicana	Desert chicory
Senecio flaccidus	Shrubby butterweed
Senecio vulgaris (non-native species)	Common groundsel
Sonchus oleraceus (non-native species)	Common sow thistle
Stephanomeria exigua	Small wreath-plant
Stylocline gnaphaloides	Everlasting neststraw
Boraginaceae	Borage family
Amsinckia intermedia	Common fiddleneck
Eucrypta chrysanthemifolia	Common eucrypta
Phacelia cicutaria	Caterpillar phacelia
Phacelia ramosissima	Branching phacelia
Plagiobothrys sp.	Popcornflower

Scientific Name	Common Name
Brassicaceae	Mustard family
Hirschfeldia incana (non-native species)	Shortpod mustard
Sisymbrium irio (non-native species)	London rocket
Sisymbrium orientale (non-native species)	Indian hedgemustard
Cucurbitaceae	Gourd family
Marah macrocarpus	Cucamonga manroot
Euphorbiaceae	Spurge family
Croton setigerus	Dove weed
Fabaceae	Pea family
Acmispon glaber	Deerweed
Amorpha fruticosa	False indigo
Robinia pseudoacacia (non-native species)	Black locust
Fagaceae	Beech family
Quercus agrifolia	California live oak
Quercus berberidifolia	Scrub oak
Geraniaceae	Geranium family
Erodium cicutarium (non-native species)	Redstem stork's bill
Lamiaceae	Mint family
Marrubium vulgare (non-native species)	Horehound
Salvia apiana	White sage
Salvia mellifera	Black sage
Montiaceae	Miner's lettuce family
Calandrinia menziesii	Fringed redmaids
Claytonia parviflora var. parviflora	Streambank springbeauty
Myrtaceae	Myrtle family
Eucalyptus sp. (non-native species)	Eucalyptus
Nyctaginaceae	Four-o'clock family
Mirabilis laevis	Wishbone bush
Oleaceae	Olive family
Olea europaea (non-native species)	Olive
Papaveraceae	Poppy family
Romneya coulteri	Coulter's Matilija poppy
Phrymaceae	Monkey-flower family
Mimulus aurantiacus	Red bush monkey-flower
Plantaginaceae	Plantain family
Keckiella antirrhinoides	Yellow bush penstemon
Platanaceae	Sycamore family
Platanus racemosa	California sycamore
Polemoniaceae	Phlox family
Gilia angelensis	Los Angeles gilia

Scientific Name	Common Name	
Polygonaceae	Buckwheat family	
Eriogonum fasciculatum	California buckwheat	
Eriogonum gracile	Slender buckwheat	
Rosaceae	Rose family	
Adenostoma fasciculatum	Chamise	
Heteromeles arbutifolia	Toyon	
Prunus ilicifolia	Hollyleaf cherry	
Rubiaceae	Madder family	
Galium angustifolium ssp. angustifolium	Narrow-leaved bedstraw	
Salicaceae	Willow family	
Populus fremontii	Fremont cottonwood	
Solanaceae	Nightshade family	
Nicotiana glauca (non-native species)	Tree tobacco	
Solanum douglasii	Greenspot nightshade	
Urticaceae	Nettle Family	
Urtica urens (non-native species)	Dwarf nettle	
Verbenaceae	Vervain family	
Lantana camara	Lantana	
MONOCOTS FLOWERING PLANTS		
Arecaceae	Palm family	
Phoenix canariensis (non-native species)	Canary Island date palm	
Washingtonia robusta (non-native species)	Mexican fan palm	
Poaceae	Grass family	
Bromus catharticus (non-native species)	Rescue grass	
Bromus madritensis (non-native species)	Foxtail chess	
Melica imperfecta	Coast range melic	
Schismus barbatus (non-native species)	Common Mediterranean grass	
REPTILES		
Phrynosomatidae	Phrynosomatid Lizards	
Uta stansburiana	Common side-blotched lizard	
BIRDS		
Odontophoridae	New World Quail	
Callipepla californica	California quail	
Columbidae	Pigeons and Doves	
Streptopelia decaocto (non-native species)	Eurasian collared dove	
Accipitridae	Kites, Hawks, and Eagles	
Buteo jamaicensis	Red-tailed hawk	
Picidae	Woodpeckers	
Melanerpes formicivorus	Acorn woodpecker	
Picoides nuttallii	Nuttall's woodpecker	

Scientific Name	Common Name
Tyrannidae	Tyrant Flycatchers
Sayornis nigricans	Black phoebe
Corvidae	Crows and Ravens
Corvus corax	Common raven
Bombycillidae	Waxwings
Bombycilla cedrorum	Cedar waxwing
Ptilogonatidae	Silky flycatchers
Phainopepla nitens	Phainopepla
Fringillidae	Finches
Haemorhous mexicanus	House finch
Passerellidae	New World Sparrows
Melozone crissalis	California towhee
Icteridae	Blackbirds, Orioles and Allies
Icterus cucullatus	Hooded oriole
MAMMALS	
Sciuridae	Squirrels
Spermophilus beecheyi	California ground squirrel